

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0999	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 0999						
Netherlands	U	32.37				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.20		0.20	0.62%		
Trim / Thin Trees	2.43	0.17	3.11	9.61%		
Encroachments	0.49	0.41	2.13	6.58%	1.47	0.19
Animal Control	1.32		1.32	4.08%		
Crown Surface / Depressions / Rutting	0.73		0.73	2.26%		
Repair Gates	0.01		0.01	0.03%		
USACE Erosion Survey	0.59	9.44	38.35	118.47%		
<i>LMA Totals:</i>	5.77	10.02	45.85	141.64%	1.47	0.19

Unit No. 01 Yolo Bypass	Overall Unit Rating	Total Unit Miles				
	M	15.43				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Trim / Thin Trees	0.58		0.58	3.76%		
Encroachments	0.07	0.29	1.23	7.97%	0.26	
Animal Control	0.01		0.01	0.07%		
Crown Surface / Depressions / Rutting	0.73		0.73	4.73%		
Repair Gates	0.01		0.01	0.07%		
USACE Erosion Survey	0.02		0.02	0.13%		
<i>Unit Totals:</i>	1.42	0.29	2.58	16.72%	0.26	0.00

Unit No. 02 Miner Slough	Overall Unit Rating	Total Unit Miles				
	A	2.32				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.03		0.03	1.29%		
Trim / Thin Trees	0.08		0.08	3.45%		
Encroachments	0.01		0.01	0.43%	0.06	0.02
<i>Unit Totals:</i>	0.12	0.00	0.12	5.17%	0.06	0.02

Unit No. 03 Sutter Slough	Overall Unit Rating	Total Unit Miles				
	U	3.74				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.02		0.02	0.54%		
Trim / Thin Trees	0.38	0.02	0.46	12.30%		
Encroachments	0.03	0.01	0.07	1.87%		0.04
USACE Erosion Survey	0.55		0.55	14.71%		
<i>Unit Totals:</i>	0.98	0.03	1.10	29.41%	0.00	0.04

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Sacramento River	Overall Unit Rating	Total Unit Miles				
	U	1.22				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Trim / Thin Trees	0.07	0.13	0.59	48.36%		
Encroachments					0.29	
USACE Erosion Survey		0.04	0.16	13.11%		
<i>Unit Totals:</i>	0.07	0.17	0.75	61.48%	0.29	0.00

Unit No. 05 Elk Slough	Overall Unit Rating	Total Unit Miles				
	U	9.66				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.15		0.15	1.55%		
Trim / Thin Trees	1.32	0.02	1.40	14.49%		
Encroachments	0.38	0.11	0.82	8.49%	0.86	0.13
Animal Control	1.31		1.31	13.56%		
USACE Erosion Survey	0.02	9.40	37.62	389.44%		
<i>Unit Totals:</i>	3.18	9.53	41.30	427.54%	0.86	0.13

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Left	15.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Bob Webber RD 999		Bob Webber RD 999	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass							Left	15.43	09/30/2010 10/18/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.13	0.41	Earthen Levee	Encroachments	WS	U	Material	38.503346 ° -121.582116 °	38.499389 ° -121.581933 °	1 Y
2	0.44	0.44	Earthen Levee	Encroachments	WS	C	Garbage	38.498954 ° -121.581916 °	38.498954 ° -121.581916 °	13
3	1.75	1.77	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.480082 ° -121.580930 °	38.479788 ° -121.580918 °	4 Y
4	1.78	1.78	Earthen Levee	Encroachments	LS	M	Garbage Inspector Comments: Material should be removed or spread out along slope. Garage has been added to material pile.	38.479647 ° -121.580905 °	38.479647 ° -121.580905 °	5 Y
5	1.81	2.07	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.479165 ° -121.580640 °	38.475463 ° -121.580722 °	30
6	2.15	2.15	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.474258 ° -121.580528 °	38.474258 ° -121.580528 °	7
7	2.15	2.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.474200 ° -121.580480 °	38.474200 ° -121.580480 °	31
8	2.20	2.21	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.473542 ° -121.580793 °	38.473417 ° -121.580885 °	8
9	4.15	4.21	Earthen Levee	Encroachments	WS	W	Prunings	38.447017 ° -121.593338 °	38.446288 ° -121.593657 °	9 Y
10	4.17	4.18	Earthen Levee	Encroachments	LS	W	Prunings	38.446787 ° -121.593433 °	38.446653 ° -121.593492 °	10 Y
11	4.18	4.18	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.446619 ° -121.593442 °	38.446619 ° -121.593442 °	14
12	4.19	4.19	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.446478 ° -121.593508 °	38.446478 ° -121.593508 °	15
13	4.24	4.28	Earthen Levee	Trim / Thin Trees	LS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.445842 ° -121.593857 °	38.445268 ° -121.594118 °	11
14	4.58	4.58	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.441063 ° -121.596038 °	38.441063 ° -121.596038 °	16
15	4.61	4.61	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.440748 ° -121.596187 °	38.440748 ° -121.596187 °	17
16	4.85	4.85	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 2:1 slope, no stability issues, clays and silts, 1.3 ft/s [2009 SiteID:DWS_5-0_L]	38.437506 ° -121.597708 °	38.437422 ° -121.597744 °	34
17	4.85	4.86	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 2:1 slope, no stability issues, clays and silts, 1.3 ft/s [2009 SiteID:DWS_5-01_L]	38.437406 ° -121.597758 °	38.437297 ° -121.597803 °	35

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass							Left	15.43	09/30/2010 10/18/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
18	5.30	5.30	Earthen Levee	Encroachments	WS	C	Tree or limb	38.431318 ° -121.600564 °	38.431318 ° -121.600564 °	19
19	5.89	6.47	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	38.423306 ° -121.604277 °	38.415299 ° -121.607979 °	21
20	6.55	6.60	Earthen Levee	Encroachments	LS	M	Prunings	38.414367 ° -121.608430 °	38.413698 ° -121.608762 °	18 Y
21	8.12	8.16	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.392797 ° -121.618363 °	38.392376 ° -121.618557 °	22
22	8.17	8.17	Earthen Levee	Encroachments	WS	M	Material Inspector Comments: Concrete rubble on waterside berm.	38.392255 ° -121.618709 °	38.392255 ° -121.618709 °	25 Y
23	9.20	9.27	Earthen Levee	Encroachments	LS	PO	Fences	38.378161 ° -121.625181 °	38.377261 ° -121.625619 °	918
24	9.31	9.74	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Keep the crown roadway free of vegetation.	38.376669 ° -121.625896 °	38.370762 ° -121.628640 °	919
25	9.77	9.96	Earthen Levee	Encroachments	LS	PO	Fences Inspector Comments: Fence at landside shoulder	38.370502 ° -121.628975 °	38.367903 ° -121.630017 °	20
26	9.88	9.88	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.368898 ° -121.629470 °	38.368898 ° -121.629470 °	26
27	9.96	10.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Keep the crown roadway free of vegetation.	38.367831 ° -121.629990 °	38.364238 ° -121.631674 °	920
28	9.96	9.96	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.367750 ° -121.630025 °	38.367750 ° -121.630025 °	2
29	10.22	10.22	Earthen Levee	Repair Gates	CR	M	Inspector Comments: Gate is hard to open due to tee-pole dragging.	38.364223 ° -121.631672 °	38.364223 ° -121.631672 °	27
30	10.58	10.58	Earthen Levee	Encroachments	WS	U	Garbage	38.359305 ° -121.633949 °	38.359305 ° -121.633949 °	28 Y
31	10.83	11.07	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.356077 ° -121.635598 °	38.352640 ° -121.637078 °	23 Y
32	10.87	11.23	Earthen Levee	Encroachments	LS	C	Tree or limb	38.355450 ° -121.635867 °	38.350571 ° -121.638002 °	24
33	11.91	12.23	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	38.341174 ° -121.642311 °	38.336717 ° -121.643772 °	921

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass				Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
34	12.54	12.86	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	38.332353 ° -121.644629 °	38.327644 ° -121.644973 °	922
35	13.07	13.85	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	38.324669 ° -121.644957 °	38.313262 ° -121.644958 °	923
36	14.23	15.17	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	38.307759 ° -121.644940 °	38.294140 ° -121.644955 °	29
37	15.07	15.07	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.295524 ° -121.644951 °	38.295524 ° -121.644951 °	32
38	15.28	15.28	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.292544 ° -121.644960 °	38.292544 ° -121.644960 °	33
39	15.32	15.32	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.291987 ° -121.644961 °	38.291987 ° -121.644961 °	924

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.13
End Levee Mile	0.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at fill on waterside berm

richard_f_20100921_230.jpg



Levee Mile Report Line	1
Start Levee Mile	0.13
End Levee Mile	0.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking east at fill on waterside

richard_f_20100921_231.jpg



Levee Mile Report Line	1
Start Levee Mile	0.13
End Levee Mile	0.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at fill on waterside shoulder and slope.

richard_f_20100921_232.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	1.75
End Levee Mile	1.77
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking east at overgrown trees on waterside slope and shoulder

richard_f_20100921_233.jpg



Levee Mile Report Line	3
Start Levee Mile	1.75
End Levee Mile	1.77
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at overgrown trees on waterside slope and toe.

richard_f_20100921_234.jpg



Levee Mile Report Line	4
Start Levee Mile	1.78
End Levee Mile	1.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Material pile on landside shoulder at LM 1.78

richard_f_20100921_235.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	1.78
End Levee Mile	1.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at garbage pile on landside shoulder.

richard_f_20100921_236.jpg



Levee Mile Report Line	4
Start Levee Mile	1.78
End Levee Mile	1.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east on garbage on landside shoulder and slope next to ramp.

richard_f_20100921_237.jpg



Levee Mile Report Line	9
Start Levee Mile	4.15
End Levee Mile	4.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pruning pile on waterside shoulder.

richard_f_20100921_238.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	4.17
End Levee Mile	4.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Prunings on waterside shoulder, slope & toe.

richard_f_20100921_239.jpg



Levee Mile Report Line	20
Start Levee Mile	6.55
End Levee Mile	6.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Prunings along landside shoulder.

richard_f_20100921_241.jpg



Levee Mile Report Line	22
Start Levee Mile	8.17
End Levee Mile	8.17
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at concrete rubble on waterside berm.

richard_f_20100921_245.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.43	09/30/2010 10/18/2010	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	10.58
End Levee Mile	10.58
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at garbage on waterside toe and berm.

richard_f_20100921_246.jpg



Levee Mile Report Line	31
Start Levee Mile	10.83
End Levee Mile	11.07
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Pine trees along waterside shoulder & slope. (Site of a old christmas tree farm).

richard_f_20100921_243.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

Waterway			Bank	Unit Miles
Unit No. 02 Miner Slough			Right	2.32

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough							Right	2.32	10/19/2010 10/19/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.03	0.06	Earthen Levee	Encroachments	WS	PO	Landscaping	38.290382 ° -121.644335 °	38.290502 ° -121.643745 °	1 Y
2	0.17	0.23	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.290821 ° -121.641831 °	38.290779 ° -121.640672 °	19
3	0.24	0.24	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.290727 ° -121.640389 °	38.290727 ° -121.640389 °	20
4	0.53	0.53	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.291445 ° -121.635386 °	38.291445 ° -121.635386 °	12
5	0.76	0.76	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.292623 ° -121.631762 °	38.292623 ° -121.631762 °	21
6	0.83	0.83	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.292383 ° -121.630476 °	38.292383 ° -121.630476 °	2
7	0.86	0.90	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.292221 ° -121.629949 °	38.291899 ° -121.629202 °	13
8	0.93	0.96	Earthen Levee	Trim / Thin Trees	LS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.291577 ° -121.628803 °	38.291372 ° -121.628273 °	22
9	1.09	1.13	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.291070 ° -121.625904 °	38.291059 ° -121.625295 °	4 Y
10	1.66	1.66	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.290342 ° -121.615698 °	38.290342 ° -121.615698 °	6
11	1.66	1.68	Earthen Levee	Encroachments	LS	CO	Buildings	38.290287 ° -121.615668 °	38.290217 ° -121.615460 °	3 Y
12	1.66	1.66	Earthen Levee	Encroachments	LS	M	Tree or limb	38.290248 ° -121.615560 °	38.290248 ° -121.615560 °	5
13	1.69	1.69	Earthen Levee	Encroachments	LS	PO	Tank	38.290195 ° -121.615268 °	38.290195 ° -121.615268 °	10 Y
14	1.69	1.69	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.290171 ° -121.615260 °	38.290171 ° -121.615260 °	11
15	1.70	1.72	Earthen Levee	Encroachments	LS	PO	Landscaping	38.290026 ° -121.614942 °	38.289865 ° -121.614742 °	15 Y
16	1.72	1.74	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.289927 ° -121.614735 °	38.289740 ° -121.614497 °	7 Y
17	1.72	1.75	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.289895 ° -121.614688 °	38.289595 ° -121.614337 °	8 Y
18	1.73	1.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.289755 ° -121.614653 °	38.289755 ° -121.614653 °	23 Y
19	1.77	1.80	Earthen Levee	Vegetation	WS	C	Elderberries are blocking visibility and flood fight capability.	38.289388 ° -121.614093 °	38.289057 ° -121.613660 °	9

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough					Right	2.32	10/19/2010 10/19/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
20	2.05	2.07	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.288795 ° -121.609295 °	38.288737 ° -121.608835 °	24
21	2.05	2.05	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.288852 ° -121.609203 °	38.288852 ° -121.609203 °	16

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.32	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking north at century plant on landside shoulder.	
richard_f_20101021_331.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking east at century plant on landside shoulder.	
richard_f_20101021_332.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.09
End Levee Mile	1.13
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northeast at dense veg. on waterside slope.	
richard_f_20100921_251.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.32	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	1.66
End Levee Mile	1.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at building at landside toe.

richard_f_20101021_333.jpg



Levee Mile Report Line	11
Start Levee Mile	1.66
End Levee Mile	1.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at building at landside toe.

richard_f_20101021_334.jpg



Levee Mile Report Line	13
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at tank on landside slope and toe.

richard_f_20100921_254.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.32	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	1.70
End Levee Mile	1.72
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at dense veg. on landside toe.

richard_f_20100921_255.jpg



Levee Mile Report Line	16
Start Levee Mile	1.72
End Levee Mile	1.74
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at dense veg. on waterside slope.

richard_f_20100921_252.jpg



Levee Mile Report Line	17
Start Levee Mile	1.72
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at elderberry bush on landside shoulder and slope.

richard_f_20100921_253.jpg



*** Location**

LS : Land Side
WS : Water Side
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.32	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of overgrown fig tree on landside shoulder.

richard_f_20100921_257.jpg



Levee Mile Report Line	18
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of overgrown fig tree along landside shoulder.

richard_f_20100921_258.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

Waterway			Bank	Unit Miles
Unit No. 03 Sutter Slough			Right	3.74

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.03	0.04	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.287145 ° -121.605572 °	38.287267 ° -121.605478 °	4 Y
2	0.04	0.05	Earthen Levee	Encroachments	LS	CO	Landscaping	38.287267 ° -121.605477 °	38.287395 ° -121.605378 °	5 Y
3	0.13	0.83	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A	Add appropriate gravel or road base. Grade and compact.	38.288473 ° -121.604775 °	38.298082 ° -121.604795 °	1
4	0.22	0.63	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.73 ft/s [2009 SiteID:STR_24-7_R]	38.295514 ° -121.605586 °	38.289633 ° -121.604344 °	29 Y
5	0.44	0.44	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	38.292748 ° -121.604972 °	38.292748 ° -121.604972 °	7 Y
6	0.64	0.64	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.295618 ° -121.605923 °	38.295618 ° -121.605923 °	8 Y
7	0.67	0.67	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.296022 ° -121.605889 °	38.296022 ° -121.605889 °	3
8	0.72	0.72	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.296716 ° -121.605700 °	38.296716 ° -121.605700 °	23
9	0.73	0.73	Earthen Levee	Encroachments	LS	M	Prunings	38.296942 ° -121.605528 °	38.296942 ° -121.605528 °	2 Y
10	0.93	0.93	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses on landside slope.	38.299197 ° -121.603685 °	38.299197 ° -121.603685 °	6
11	0.93	0.93	Earthen Levee	Encroachments	LS	C	Prunings	38.299198 ° -121.603681 °	38.299198 ° -121.603681 °	9
12	0.94	0.94	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.299352 ° -121.603475 °	38.299352 ° -121.603475 °	10
13	0.96	1.10	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1:1 slope, tree hazards, clays and silts, 4.64 ft/s [2009 SiteID:STR_25-2_R]	38.300486 ° -121.601056 °	38.299403 ° -121.603056 °	30 Y
14	1.49	1.49	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.306062 ° -121.599495 °	38.306062 ° -121.599495 °	11
15	1.52	1.52	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.306332 ° -121.599109 °	38.306332 ° -121.599109 °	12
16	1.56	1.61	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.306762 ° -121.598541 °	38.307427 ° -121.598198 °	13
17	1.67	1.67	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.308129 ° -121.598610 °	38.308129 ° -121.598610 °	14

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Sutter Slough							Right	3.74	10/19/2010 10/19/2010	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
18	1.82	1.82	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.310177 ° -121.599183 °	38.310177 ° -121.599183 °	15	
19	1.96	1.97	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.311457 ° -121.597321 °	38.311555 ° -121.597062 °	20	
20	2.02	2.02	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.311897 ° -121.596394 °	38.311897 ° -121.596394 °	21 Y	
21	2.12	2.12	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.312839 ° -121.594936 °	38.312839 ° -121.594936 °	24	
22	2.15	2.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.313099 ° -121.594568 °	38.313099 ° -121.594568 °	25	
23	2.28	2.28	Earthen Levee	Encroachments	LS	U	Tree or limb Inspector Comments: Fallen tree should be removed and hole left by fallen tree should be re-compacted according to Title 23 standards.	38.314400 ° -121.592987 °	38.314400 ° -121.592987 °	26 Y	
24	2.40	2.40	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: Down tree branch should cut and removed.	38.316045 ° -121.592197 °	38.316045 ° -121.592197 °	17	
25	2.66	2.75	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.319406 ° -121.590761 °	38.320690 ° -121.590820 °	27	
26	2.70	2.72	Earthen Levee	Encroachments	LS	CO	Landscaping	38.320105 ° -121.590765 °	38.320340 ° -121.590730 °	16 Y	
27	2.79	2.95	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.321244 ° -121.590969 °	38.323362 ° -121.590208 °	28	
28	3.00	3.00	Earthen Levee	Encroachments	WS	M	Tree or limb	38.323712 ° -121.589255 °	38.323712 ° -121.589255 °	18	
29	3.02	3.02	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.323770 ° -121.589035 °	38.323770 ° -121.589035 °	31	
30	3.23	3.23	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.325534 ° -121.586273 °	38.325534 ° -121.586273 °	19	
31	3.72	3.73	Earthen Levee	Encroachments	LS	CO	Landscaping	38.332045 ° -121.584835 °	38.332200 ° -121.584677 °	22 Y	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at dense trees on landside slope and toe.

richard_f_20101021_335.jpg



Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at dense trees on landside slope and toe.

richard_f_20101021_336.jpg



Levee Mile Report Line	2
Start Levee Mile	0.04
End Levee Mile	0.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at cactus and landscaping on landside slope.

richard_f_20100921_261.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.73 ft/s [2009 SiteID:STR_24-7_R]	
richard_f_20100921_271.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	0.44
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at elderberry bush on waterside slope.	
richard_f_20100921_262.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	0.44
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking north at elderberry bush on waterside slope.	
richard_f_20100921_263.jpg	



* Location		** Rating	
LS : Land Side		A : Acceptable	PO : Partially Obstructing
WS : Water Side		M : Minimally Acceptable	CO : Completely Obstructing
CR : Crown		U : Unacceptable	N : Not Inspected/Rated
			C : Corrected
			W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	0.44
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at thinned Elderberry on waterside slope.

richard_f_20101021_337.jpg



Levee Mile Report Line	6
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Elderberries blocking view of landside toe.

richard_f_20100921_264.jpg



Levee Mile Report Line	6
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at thinned elderberry on landside slope.

richard_f_20101021_338.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
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CO : Completely Obstructing
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W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at pruning pile on landside toe.

richard_f_20101021_339.jpg



Levee Mile Report Line	9
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at pruning pile on landside toe.

richard_f_20101021_340.jpg



Levee Mile Report Line	13
Start Levee Mile	0.96
End Levee Mile	1.10
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1:1 slope, tree hazards, clays and silts, 4.64 ft/s [2009 SiteID:STR_25-2_R]

richard_f_20100921_272.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	2.02
End Levee Mile	2.02
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at willow on landsie slope and toe.

richard_f_20100921_267.jpg



Levee Mile Report Line	23
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at dead tree stump and hole on landside shoulder and slope.

richard_f_20100921_269.jpg



Levee Mile Report Line	23
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at dead tree on landside slope.

richard_f_20100921_270.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	10/19/2010 10/19/2010	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	2.70
End Levee Mile	2.72
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at landscaping and dense veg. on landside slope and toe.

richard_f_20100921_265.jpg



Levee Mile Report Line	26
Start Levee Mile	2.70
End Levee Mile	2.72
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at landscaping and dense veg. on landside slope and toe.

richard_f_20100921_266.jpg



Levee Mile Report Line	31
Start Levee Mile	3.72
End Levee Mile	3.73
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at landscaping on landside slope and toe.

richard_f_20100921_268.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

Waterway			Bank	Unit Miles
Unit No. 04 Sacramento River			Right	1.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River						Right	1.22	10/20/2010 10/20/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.05	0.05	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.414642 ° -121.523430 °	38.414642 ° -121.523430 °	15
2	0.05	0.11	Earthen Levee	Encroachments	LS	PO	Fences	38.414672 ° -121.523527 °	38.415468 ° -121.524037 °	13 Y
3	0.19	0.23	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.416518 ° -121.524502 °	38.417017 ° -121.524935 °	24
4	0.31	0.35	Earthen Levee	Encroachments	LS	PO	Landscaping	38.418002 ° -121.525712 °	38.418470 ° -121.526002 °	12 Y
5	0.37	0.48	Earthen Levee	Encroachments	LS	PO	Landscaping	38.418838 ° -121.526225 °	38.420237 ° -121.527193 °	11
6	0.37	0.50	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.418838 ° -121.526225 °	38.420447 ° -121.527380 °	10 Y
7	0.39	0.47	Earthen Levee	Encroachments	WS	PO	Landscaping	38.419137 ° -121.526280 °	38.420078 ° -121.526913 °	1
8	0.62	0.62	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.421997 ° -121.528470 °	38.421997 ° -121.528470 °	19
9	0.65	0.65	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.422377 ° -121.528792 °	38.422377 ° -121.528792 °	18
10	0.66	0.71	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.422517 ° -121.528858 °	38.423133 ° -121.529210 °	7
11	0.71	0.87	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.423035 ° -121.529255 °	38.425140 ° -121.530742 °	6 Y
12	0.75	0.75	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.423560 ° -121.529653 °	38.423560 ° -121.529653 °	17
13	0.78	0.78	Earthen Levee	Encroachments	LS	C	Tree or limb	38.424003 ° -121.529950 °	38.424003 ° -121.529950 °	16
14	0.80	0.84	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, 1.5:1 slope, tree hazards and slumping, sands and silts, 5.36 ft/s [2009 SiteID:SAC_42-7_R]	38.424922 ° -121.530100 °	38.424425 ° -121.529681 °	20 Y
15	0.82	0.82	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.424432 ° -121.530265 °	38.424432 ° -121.530265 °	14
16	0.83	0.83	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.424722 ° -121.530470 °	38.424722 ° -121.530470 °	9
17	0.91	0.91	Earthen Levee	Trim / Thin Trees	LS		Trim trees to at least five feet above ground level.	38.425607 ° -121.530937 °	38.425607 ° -121.530937 °	2
18	0.94	0.97	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.425972 ° -121.531228 °	38.426500 ° -121.531560 °	3

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	10/20/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.05
End Levee Mile	0.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Cyclone fence along landside shoulder at LM 0.05 -0.11	
richard_f_20100921_275.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.31
End Levee Mile	0.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at dense veg on landside shoulder and slope.	
richard_f_20101110_383.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.31
End Levee Mile	0.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at dense veg on landside slope and toe.	
richard_f_20101110_384.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	10/20/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.37
End Levee Mile	0.50
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at dense trees on waterside slope.

richard_f_20100921_273.jpg



Levee Mile Report Line	6
Start Levee Mile	0.37
End Levee Mile	0.50
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at dense trees on landside slope and toe.

richard_f_20100921_274.jpg



Levee Mile Report Line	11
Start Levee Mile	0.71
End Levee Mile	0.87
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at trimmed trees on landside slope and removed fence.

richard_f_20101110_385.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	10/20/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	0.71
End Levee Mile	0.87
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at trimmed trees and removed fence on landside slope.	
richard_f_20101110_386.jpg	



Levee Mile Report Line	14
Start Levee Mile	0.80
End Levee Mile	0.84
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1.5:1 slope, tree hazards and slumping, sands and silts, 5.36 ft/s [2009 SiteID:SAC_42-7_R]	
richard_f_20100921_276.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0999 Netherlands

Waterway			Bank	Unit Miles
Unit No. 05 Elk Slough			Right	9.66

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/16/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough							Right	9.66	10/19/2010 10/20/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.19	0.22	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.334960 ° -121.584047 °	38.335428 ° -121.583845 °	3 Y
2	0.20	0.20	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.335209 ° -121.583966 °	38.335209 ° -121.583966 °	4
3	0.24	0.26	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1:1 slope, tree hazards, clays and cobbles, 3 ft/s [2009 SiteID:ELK_0-2_R]	38.335842 ° -121.583486 °	38.335656 ° -121.583608 °	97 Y
4	0.26	9.66	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, 1.5:1 slope, tree hazards and holes, sands and silts, 5.08 ft/s [2009 SiteID:SAC_41-9_R]	38.417731 ° -121.524919 °	38.414425 ° -121.522708 °	98 Y
5	0.27	0.32	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.336113 ° -121.583418 °	38.336663 ° -121.583027 °	1
6	0.35	0.35	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.337089 ° -121.582756 °	38.337089 ° -121.582756 °	5
7	0.40	0.40	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.337654 ° -121.582427 °	38.337654 ° -121.582427 °	8 Y
8	0.41	0.41	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.337801 ° -121.582397 °	38.337801 ° -121.582397 °	17
9	0.41	0.46	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.337801 ° -121.582395 °	38.338582 ° -121.582217 °	16
10	0.43	0.47	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.338075 ° -121.582322 °	38.338688 ° -121.582193 °	25 Y
11	0.53	0.53	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.339545 ° -121.582033 °	38.339545 ° -121.582033 °	6
12	0.54	0.54	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.339732 ° -121.582083 °	38.339732 ° -121.582083 °	26
13	0.56	0.60	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.340124 ° -121.582039 °	38.340560 ° -121.581905 °	27
14	0.57	0.64	Earthen Levee	Trim / Thin Trees	LS	W	Thin trees to allow visibility of the ground and room to flood fight.	38.340070 ° -121.581980 °	38.341058 ° -121.581615 °	7
15	0.72	0.74	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.342180 ° -121.581230 °	38.342537 ° -121.581263 °	9 Y
16	0.78	0.94	Earthen Levee	Trim / Thin Trees	WS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.343058 ° -121.581263 °	38.345210 ° -121.580713 °	10
17	0.84	0.94	Earthen Levee	Encroachments	LS	PO	Landscaping	38.343825 ° -121.581133 °	38.345215 ° -121.580728 °	11 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough				Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	0.95	1.09	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	38.345402 ° -121.580655 °	38.347133 ° -121.579573 °	13
19	1.11	1.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.347427 ° -121.579395 °	38.347863 ° -121.579113 °	14
20	1.17	1.17	Earthen Levee	Encroachments	WS	M	Tree or limb	38.348124 ° -121.578787 °	38.348124 ° -121.578787 °	28 Y
21	1.19	1.19	Earthen Levee	Encroachments	WS	M	Tree or limb	38.348240 ° -121.578426 °	38.348240 ° -121.578426 °	35 Y
22	1.20	1.24	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.348237 ° -121.578440 °	38.348328 ° -121.577735 °	15
23	1.24	1.27	Earthen Levee	Encroachments	LS	PO	Fences Inspector Comments: Fence is located on Landside shoulder	38.348336 ° -121.577621 °	38.348332 ° -121.577172 °	76
24	1.34	1.40	Earthen Levee	Encroachments	LS	CO	Landscaping	38.348267 ° -121.575802 °	38.348188 ° -121.574690 °	2 Y
25	1.34	1.34	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.348252 ° -121.575704 °	38.348252 ° -121.575704 °	36
26	1.51	1.88	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.348670 ° -121.573320 °	38.353852 ° -121.573570 °	18 Y
27	1.54	1.57	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	38.349152 ° -121.573493 °	38.349582 ° -121.573538 °	19
28	1.59	1.65	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.349835 ° -121.573643 °	38.350717 ° -121.573887 °	20
29	1.75	1.81	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.352088 ° -121.574052 °	38.352968 ° -121.574008 °	21
30	1.97	1.97	Earthen Levee	Encroachments	WS	M	Material Inspector Comments: Concrete rubble should be removed or broken up and spread out at waterward toe.	38.354888 ° -121.572540 °	38.354888 ° -121.572540 °	22 Y
31	2.06	2.06	Earthen Levee	Encroachments	WS	M	Material	38.355531 ° -121.571374 °	38.355531 ° -121.571374 °	80
32	2.20	2.22	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.355402 ° -121.568893 °	38.355282 ° -121.568547 °	24
33	2.33	2.35	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.354474 ° -121.566701 °	38.354555 ° -121.566191 °	40
34	2.41	2.53	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.354916 ° -121.565167 °	38.355982 ° -121.563561 °	42
35	2.65	2.70	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.357371 ° -121.562500 °	38.358132 ° -121.562347 °	82

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 05 Elk Slough						Right	9.66	10/19/2010 10/20/2010	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
36	2.93	3.19	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.361268 ° -121.563263 °	38.364373 ° -121.561947 °	29
37	3.04	3.10	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.362813 ° -121.563332 °	38.363558 ° -121.563017 °	30
38	3.19	3.24	Earthen Levee	Encroachments	LS	PO	Landscaping	38.364392 ° -121.561882 °	38.364597 ° -121.561087 °	31 Y
39	3.24	3.31	Earthen Levee	Encroachments	WS	M	Prunings	38.364585 ° -121.561047 °	38.364503 ° -121.559880 °	32
40	3.29	3.37	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.364552 ° -121.560137 °	38.364225 ° -121.558852 °	33
41	3.30	3.30	Earthen Levee	Encroachments	LS	C	Tree or limb Inspector Comments: Down tree on landside slope.	38.364616 ° -121.559713 °	38.364616 ° -121.559713 °	43
42	3.50	3.53	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.364113 ° -121.556507 °	38.364542 ° -121.556402 °	34
43	3.58	3.58	Earthen Levee	Encroachments	WS	M	Tree or limb	38.365159 ° -121.556540 °	38.365159 ° -121.556540 °	48
44	3.61	3.71	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.365678 ° -121.556693 °	38.367087 ° -121.556725 °	12
45	3.62	3.72	Earthen Levee	Encroachments	LS	PO	Fences	38.365711 ° -121.556714 °	38.367107 ° -121.556745 °	83
46	3.75	3.82	Earthen Levee	Encroachments	WS	M	Tree or limb	38.367482 ° -121.556542 °	38.367977 ° -121.555443 °	37
47	3.75	3.83	Earthen Levee	Encroachments	WS	PO	Fences	38.367500 ° -121.556478 °	38.367997 ° -121.555348 °	85
48	3.79	3.95	Earthen Levee	Encroachments	LS	PO	Fences	38.367644 ° -121.556012 °	38.368288 ° -121.553118 °	84
49	3.93	3.93	Earthen Levee	Encroachments	WS	M	Prunings	38.368253 ° -121.553280 °	38.368253 ° -121.553280 °	23
50	3.94	3.98	Earthen Levee	Encroachments	WS	M	Tree or limb	38.368260 ° -121.553313 °	38.368462 ° -121.552620 °	38
51	3.96	3.96	Earthen Levee	Encroachments	LS	C	Garbage	38.368318 ° -121.552938 °	38.368318 ° -121.552938 °	39
52	4.05	4.14	Earthen Levee	Trim / Thin Trees	WS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.369440 ° -121.552747 °	38.370543 ° -121.553402 °	41 Y
53	4.35	4.35	Earthen Levee	Encroachments	WS	C	Prunings	38.373234 ° -121.552058 °	38.373234 ° -121.552058 °	53
54	4.37	4.37	Earthen Levee	Encroachments	WS	M	Tree or limb	38.373517 ° -121.551867 °	38.373517 ° -121.551867 °	55 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough							Right	9.66	10/19/2010 10/20/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
55	4.38	4.41	Earthen Levee	Encroachments	LS	PO	Landscaping	38.373625 ° -121.551787 °	38.373907 ° -121.551607 °	44 Y
56	4.42	4.43	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.374160 ° -121.551408 °	38.374410 ° -121.551157 °	45
57	4.43	4.43	Earthen Levee	Encroachments	LS	PO	Landscaping	38.374410 ° -121.551173 °	38.374410 ° -121.551173 °	56
58	4.48	4.53	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.374866 ° -121.550491 °	38.375061 ° -121.549800 °	57
59	4.55	4.61	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.375072 ° -121.549547 °	38.375057 ° -121.548357 °	47
60	4.55	4.55	Earthen Levee	Encroachments	WS	C	Tree or limb	38.375113 ° -121.549391 °	38.375113 ° -121.549391 °	46
61	4.56	4.56	Earthen Levee	Encroachments	WS	C	Landscaping	38.375012 ° -121.549357 °	38.375012 ° -121.549357 °	113
62	4.57	4.68	Earthen Levee	Trim / Thin Trees	WS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.375099 ° -121.549068 °	38.375211 ° -121.547158 °	58
63	4.60	4.66	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.375050 ° -121.548717 °	38.375077 ° -121.547512 °	49
64	4.68	4.71	Earthen Levee	Encroachments	LS	M	Prunings	38.375211 ° -121.547155 °	38.375285 ° -121.546684 °	61
65	4.73	4.73	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.375360 ° -121.546291 °	38.375360 ° -121.546291 °	62
66	4.73	4.73	Earthen Levee	Encroachments	LS	M	Tree or limb	38.375373 ° -121.546200 °	38.375373 ° -121.546200 °	50
67	4.75	4.82	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.375418 ° -121.546043 °	38.375989 ° -121.544934 °	52
68	4.76	4.79	Earthen Levee	Trim / Thin Trees	WS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.375566 ° -121.545676 °	38.375775 ° -121.545255 °	63
69	4.86	4.86	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.376432 ° -121.544382 °	38.376432 ° -121.544382 °	64
70	4.89	4.89	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.376717 ° -121.544017 °	38.376717 ° -121.544017 °	54
71	5.16	5.16	Earthen Levee	Encroachments	LS	M	Prunings	38.379752 ° -121.541048 °	38.379752 ° -121.541048 °	65 Y
72	5.47	5.61	Earthen Levee	Encroachments	WS	PO	Fences	38.381490 ° -121.545477 °	38.383185 ° -121.546877 °	51
73	5.47	5.47	Earthen Levee	Encroachments	LS	PO	Fences	38.381515 ° -121.545492 °	38.381515 ° -121.545492 °	77

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough							Right	9.66	10/19/2010 10/20/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
74	5.55	5.55	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.382454 ° -121.546579 °	38.382454 ° -121.546579 °	67
75	5.57	5.57	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.382553 ° -121.546651 °	38.382553 ° -121.546651 °	68
76	5.57	5.57	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.382698 ° -121.546711 °	38.382698 ° -121.546711 °	70
77	5.59	5.64	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.382790 ° -121.546754 °	38.383548 ° -121.546728 °	71
78	5.76	5.76	Earthen Levee	Encroachments	LS	C	Prunings	38.384461 ° -121.545063 °	38.384461 ° -121.545063 °	72
79	5.95	5.95	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	38.384867 ° -121.541845 °	38.384867 ° -121.541845 °	59
80	6.17	6.17	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: Pipes stack at landside toe.	38.387510 ° -121.542075 °	38.387510 ° -121.542075 °	78
81	6.18	6.18	Earthen Levee	Encroachments	LS	C	Prunings	38.387633 ° -121.542180 °	38.387633 ° -121.542180 °	73
82	6.20	6.34	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.387825 ° -121.542335 °	38.389775 ° -121.542687 °	60
83	6.23	6.34	Earthen Levee	Encroachments	WS	U	Prunings	38.388165 ° -121.542647 °	38.389695 ° -121.542778 °	100 Y
84	6.30	6.34	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.389116 ° -121.542986 °	38.389766 ° -121.542673 °	74
85	6.44	6.52	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.390541 ° -121.541360 °	38.391396 ° -121.540038 °	75
86	6.58	6.58	Earthen Levee	Encroachments	LS	M	Prunings	38.391776 ° -121.539295 °	38.391776 ° -121.539295 °	92
87	6.76	6.82	Earthen Levee	Encroachments	WS	C	Prunings	38.394173 ° -121.539472 °	38.395119 ° -121.539377 °	79
88	6.78	6.81	Earthen Levee	Encroachments	LS	CO	Landscaping	38.394491 ° -121.539427 °	38.394991 ° -121.539333 °	93 Y
89	6.83	6.83	Earthen Levee	Encroachments	LS	PO	Fences Inspector Comments: Firewood on landside shoulder	38.395234 ° -121.539323 °	38.395234 ° -121.539323 °	96 Y
90	7.65	7.69	Earthen Levee	Encroachments	LS	CO	Landscaping	38.403895 ° -121.541113 °	38.404145 ° -121.541835 °	66 Y
91	7.66	7.68	Earthen Levee	Encroachments	WS	PO	Fences	38.403808 ° -121.541354 °	38.403976 ° -121.541661 °	99
92	8.11	8.11	Earthen Levee	Encroachments	WS	M	Prunings	38.408948 ° -121.541937 °	38.408948 ° -121.541937 °	81

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough							Right	9.66	10/19/2010 10/20/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
93	8.12	8.12	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.409018 ° -121.541737 °	38.409018 ° -121.541737 °	86
94	8.19	8.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.409532 ° -121.540667 °	38.409760 ° -121.540080 °	87
95	8.19	8.19	Earthen Levee	Encroachments	WS	M	Prunings	38.409532 ° -121.540665 °	38.409532 ° -121.540665 °	88
96	8.45	9.61	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	38.409445 ° -121.536980 °	38.413717 ° -121.523813 °	69
97	8.50	8.50	Earthen Levee	Encroachments	WS	M	Prunings	38.408763 ° -121.535609 °	38.408763 ° -121.535609 °	89
98	8.57	8.61	Earthen Levee	Encroachments	LS	PO	Fences Inspector Comments: Fence installed without CVFPB permit in 2008. Fence extend from landside toe to landside shoulder.	38.408586 ° -121.534992 °	38.408748 ° -121.534437 °	101 Y
99	8.57	8.57	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	38.408688 ° -121.534367 °	38.408688 ° -121.534367 °	106
100	8.61	8.61	Earthen Levee	Encroachments	WS	M	Tree or limb	38.409101 ° -121.533881 °	38.409101 ° -121.533881 °	90
101	8.62	8.65	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	38.409116 ° -121.533738 °	38.409500 ° -121.533443 °	102
102	8.74	8.74	Earthen Levee	Encroachments	CR	PO	Fences	38.410332 ° -121.532277 °	38.410332 ° -121.532277 °	103 Y
103	8.77	8.77	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.410608 ° -121.531653 °	38.410608 ° -121.531653 °	107
104	8.78	8.78	Earthen Levee	Encroachments	CR	PO	Fences	38.410344 ° -121.532074 °	38.410344 ° -121.532074 °	104 Y
105	8.81	8.81	Earthen Levee	Encroachments	CR	PO	Fences	38.410528 ° -121.531611 °	38.410528 ° -121.531611 °	105 Y
106	8.89	8.89	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.411567 ° -121.529902 °	38.411567 ° -121.529902 °	91
107	8.93	8.93	Earthen Levee	Encroachments	WS	M	Prunings	38.412053 ° -121.529752 °	38.412053 ° -121.529752 °	108
108	9.08	9.08	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Landowner should remove cactus.	38.414187 ° -121.529822 °	38.414187 ° -121.529822 °	94
109	9.26	9.26	Earthen Levee	Encroachments	LS	M	Tree or limb	38.416027 ° -121.528243 °	38.416027 ° -121.528243 °	95
110	9.33	9.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.415495 ° -121.527217 °	38.415278 ° -121.527005 °	109

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 05 Elk Slough				Right	9.66	10/19/2010 10/20/2010	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
111	9.42	9.47	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.414550 ° -121.526398 °	38.413940 ° -121.525902 °	110
112	9.47	9.47	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Cacuts on landside slope.	38.413807 ° -121.525740 °	38.413807 ° -121.525740 °	111
113	9.49	9.52	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.413673 ° -121.525558 °	38.413412 ° -121.525190 °	112
114	9.56	9.59	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.413338 ° -121.524568 °	38.413643 ° -121.523800 °	114

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.19
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense wild roses at landside toe (side view)

richard_f_20100921_277.jpg



Levee Mile Report Line	1
Start Levee Mile	0.19
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of dense wild roses at landside toe.

richard_f_20100921_278.jpg



Levee Mile Report Line	3
Start Levee Mile	0.24
End Levee Mile	0.26
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1:1 slope, tree hazards, clays and cobbles, 3 ft/s [2009 SiteID:ELK_0-2_R]

richard_f_20100921_301.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.26
End Levee Mile	9.66
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1.5:1 slope, tree hazards and holes, sands and silts, 5.08 ft/s [2009 SiteID:SAC_41-9_R]	
richard_f_20100921_302.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at dense veg. on landside slope and toe.	
richard_f_20100921_279.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.43
End Levee Mile	0.47
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at dense veg. on landside slope and toe.	
richard_f_20100921_286.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	0.43
End Levee Mile	0.47
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking east at overgrown tree on landside slope and toe.

richard_f_20100921_287.jpg



Levee Mile Report Line	15
Start Levee Mile	0.72
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of dense trees at landside shoulder.

richard_f_20100921_280.jpg



Levee Mile Report Line	15
Start Levee Mile	0.72
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at dense trees on landside slope and toe.

richard_f_20101021_341.jpg



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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2010

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	0.84
End Levee Mile	0.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of landscaping (Ivy) blocking view of landside slope from LM 0.84 to 0.94	
richard_f_20100921_281.jpg	



Levee Mile Report Line	17
Start Levee Mile	0.84
End Levee Mile	0.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of landscaping (Ivy) looking upstream from LM 0.84 to 0.94	
richard_f_20100921_282.jpg	



Levee Mile Report Line	20
Start Levee Mile	1.17
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at fallen limb on waterside slope and shoulder.	
richard_f_20101021_342.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	1.19
End Levee Mile	1.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at down tree on waterside slope.

richard_f_20101021_343.jpg



Levee Mile Report Line	24
Start Levee Mile	1.34
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at overgrown landscaping on landside slope.

richard_f_20101021_344.jpg



Levee Mile Report Line	24
Start Levee Mile	1.34
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at overgrown landscaping on landside slope.

richard_f_20101021_345.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	1.51
End Levee Mile	1.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of dense trees along waterside slope.

richard_f_20100921_283.jpg



Levee Mile Report Line	26
Start Levee Mile	1.51
End Levee Mile	1.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of dense trees along waterside slope.

richard_f_20100921_284.jpg



Levee Mile Report Line	30
Start Levee Mile	1.97
End Levee Mile	1.97
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Concrete rubble on waterside sholder at LM 1.97

richard_f_20100921_285.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	3.19
End Levee Mile	3.24
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking downstream of landscaping blocking view of landside slope from LM 3.19 to 3.24

richard_f_20100921_288.jpg



Levee Mile Report Line	52
Start Levee Mile	4.05
End Levee Mile	4.14
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at overgrown trees on waterside slope.

richard_f_20100921_290.jpg



Levee Mile Report Line	54
Start Levee Mile	4.37
End Levee Mile	4.37
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at down tree on waterside slope.

richard_f_20100921_295.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	55
Start Levee Mile	4.38
End Levee Mile	4.41
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Overgrown landscaping on landside slope blocking view of slope from LM 4.38 to 4.41

richard_f_20100921_292.jpg



Levee Mile Report Line	71
Start Levee Mile	5.16
End Levee Mile	5.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at prunings on landside shoulder and slope.

richard_f_20100921_296.jpg



Levee Mile Report Line	71
Start Levee Mile	5.16
End Levee Mile	5.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at pruning pile on landside slope.

richard_f_20101021_346.jpg



*** Location**

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WS : Water Side
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	83
Start Levee Mile	6.23
End Levee Mile	6.34
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at pruning piles on landside shoulder.

richard_f_20101021_347.jpg



Levee Mile Report Line	83
Start Levee Mile	6.23
End Levee Mile	6.34
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at pruning piles on landside shoulder.

richard_f_20101021_348.jpg



Levee Mile Report Line	88
Start Levee Mile	6.78
End Levee Mile	6.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at overgrown landscape on landside slope and toe.

richard_f_20100921_299.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	89
Start Levee Mile	6.83
End Levee Mile	6.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fence and Firewood at landside shoulder.

richard_f_20100921_300.jpg



Levee Mile Report Line	90
Start Levee Mile	7.65
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope blocking view of slope from LM 7.65 to 7.72

richard_f_20100921_297.jpg



Levee Mile Report Line	90
Start Levee Mile	7.65
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at overgrown landscape on landside slope.

richard_f_20100921_298.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	98
Start Levee Mile	8.57
End Levee Mile	8.61
Location	Land Side
Category	Earthen Levee
Item	Encroachments

New installed unauthorized fence at landside slope and shoulder.

richard_f_20100921_303.jpg



Levee Mile Report Line	102
Start Levee Mile	8.74
End Levee Mile	8.74
Location	Crown
Category	Earthen Levee
Item	Encroachments

New unauthorized fence that extend from landside toe to waterside toe.

richard_f_20100921_304.jpg



Levee Mile Report Line	102
Start Levee Mile	8.74
End Levee Mile	8.74
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of fence & gate across levee crown, landside & waterside slope.

richard_f_20100921_305.jpg



*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.66	10/19/2010 10/20/2010	Richard Willoughby

Levee Mile Report Line	104
Start Levee Mile	8.78
End Levee Mile	8.78
Location	Crown
Category	Earthen Levee
Item	Encroachments

New unauthorized fence and gate that extend from landside toe across levee crown to waterside toe.

richard_f_20100921_306.jpg



Levee Mile Report Line	105
Start Levee Mile	8.81
End Levee Mile	8.81
Location	Crown
Category	Earthen Levee
Item	Encroachments

New unauthorized fence and gate that extend from landside toe across levee crown to waterside toe.

richard_f_20100921_307.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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